

ICOM

INSTRUCTION MANUAL

UHF TRANSCEIVER  
**IC-U18**

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Icom Inc.

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# FOREWORD

Congratulations on your purchase of the Icom **IC-U18** UHF TRANSCEIVER.

The **IC-U18** incorporates state-of-the-art design concepts to meet the demanding needs and requirements of the commercial/industrial/public safety two-way communication user.

The **IC-U18** meets U.S. Government Military Standard Specifications 810C and 810D for use in harsh environments such as:

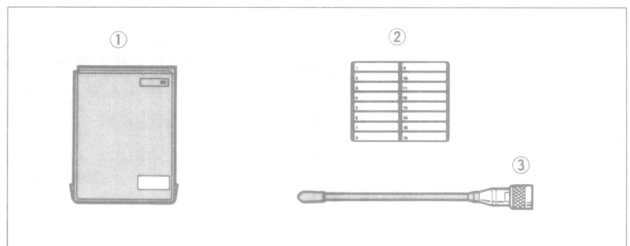
- Low pressure
- Low temperature
- High temperature
- Temperature shock
- Solar radiation
- Rain
- Humidity
- Salt fog
- Dust
- Vibration
- Shock

Please read this instruction manual carefully before operating. Also, visit your nearest authorized Icom Dealer if you have questions relating to the operation of the transceiver.

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# UNPACKING

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**Accessories included with the IC-U18:**

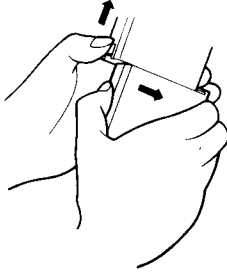
	<b>Qty.</b>
① Battery pack (CM-73) . . . . .	1
② Channel memo sticker . . . . .	1
③ Flexible antenna . . . . .	1
④ Warranty card . . . . .	1
⑤ Instruction manual . . . . .	1

# PRE-OPERATION 1.

## ■ ANTENNA CONNECTION

Insert the connector on the supplied flexible antenna into the ANTENNA CONNECTOR on the top panel of the transceiver. Screw down securely.

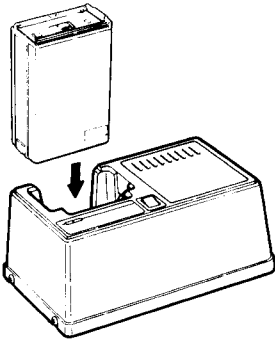
## ■ BATTERY PACK REPLACEMENT



- 1) Turn OFF the transceiver.
- 2) To remove the battery pack from the transceiver, push the BATTERY PACK RELEASE BUTTON upwards, and slide the battery pack to the right (with the transceiver facing you).
- 3) To attach the battery pack to the transceiver, mate the notched ends between the battery pack and transceiver, slide the battery pack until a click sound from the latch is heard.

## ■ BATTERY PACK CHARGING

Prior to using the transceiver for the first time, the battery pack MUST be fully charged.



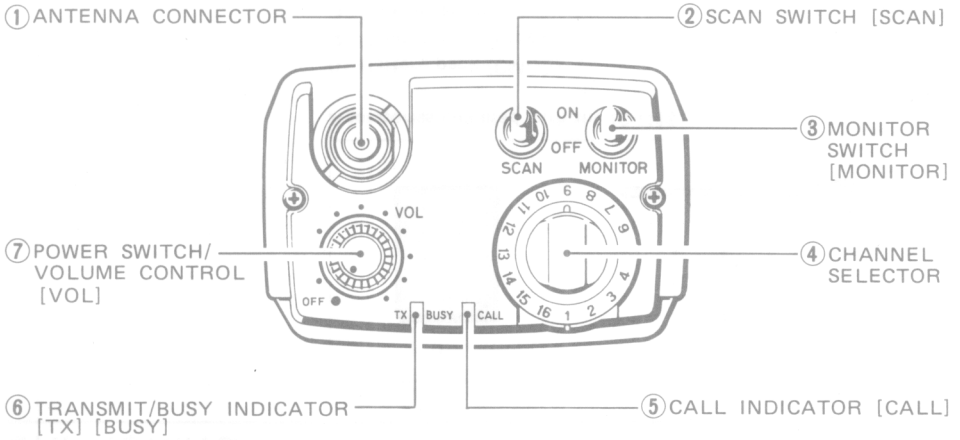
BM-70 AC BATTERY CHARGER

- 1) Turn ON the optional BM-70 AC BATTERY CHARGER.
- 2) Put the battery pack in the CHARGING SLOT as shown in the diagram at left.
  - The red [CHG] INDICATOR on the BM-70 lights up while charging.
  - The battery pack need not be attached to the transceiver for charging. However, if it is, be sure to turn the transceiver OFF.
  - Nominal charging time is about 1 hour.
- 3) When charging is finished, the red [CHG] INDICATOR on the charger automatically turns OFF.

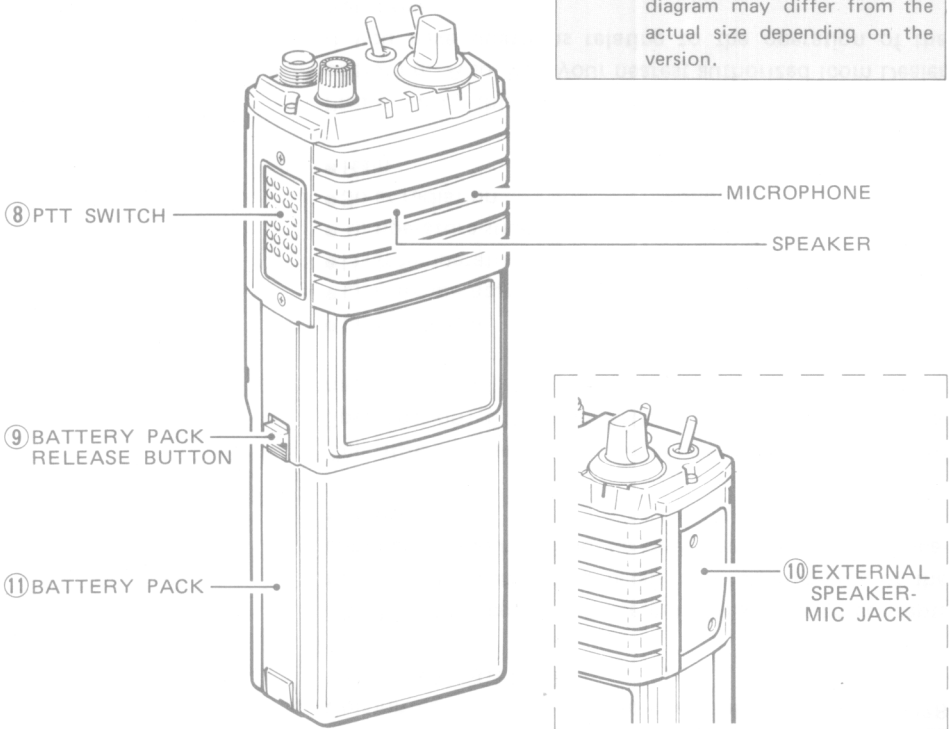
## ■ NOTE

The full charge capacity of battery packs may be reduced if repeatedly charged with only partial discharge periods. If the battery capacity seems lower than when new, discharge the battery completely through normal use, then charge fully using the proper charger.

# 2. CONTROL FUNCTIONS



**NOTE:** The battery pack shown in the diagram may differ from the actual size depending on the version.



- ① **ANTENNA CONNECTOR** Connect the supplied flexible antenna here.
- CAUTION:** Transmitting without an antenna may damage the transceiver.
- ② **SCAN SWITCH** Turns the SCAN function ON and OFF.
- ③ **MONITOR SWITCH** Turns the monitor function ON and OFF to monitor the channel for any activity according without CTCSS tone signals.
- ④ **CHANNEL SELECTOR** Selects an operating channel.
- ⑤ **CALL INDICATOR** Lights up when the transceiver receives a signal for an individual call.
- ⑥ **TRANSMIT/BUSY INDICATOR** Turns red while transmitting.  
Turns green when the channel is busy.
- ⑦ **POWER SWITCH/VOLUME CONTROL** Turns ON and OFF the power and varies the audio level.
- ⑧ **PTT (Push-To-Talk) SWITCH** Push to transmit and release to receive.
- ⑨ **BATTERY PACK RELEASE BUTTON** Allows the battery pack to be removed from the transceiver when pushed upwards.
- ⑩ **EXTERNAL SPEAKER-MIC JACK** Accepts an optional EM-49 SPEAKER-MICROPHONE. The internal speaker and microphone will not function when the speaker-microphone is connected.
- ⑪ **BATTERY PACK** Three types of battery packs are available as an option. Choose the desired battery pack to suit your needs. (See p. 5)

**AVOID** charging the battery pack in extreme cold (under 0°C/32°F) and extreme heat (over 40°C/104°F). Because the battery pack may not charge completely at these temperature extremes.

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# 3. OPERATION

## ■ RECEIVING

- 1) Set switches as follows:  
[MONITOR] SWITCH : OFF position  
[SCAN] SWITCH : OFF position
- 2) Rotate the [VOL] CONTROL for 11 to 12 o'clock position to turn ON the power.
- 3) Set the CHANNEL SELECTOR to the desired channel position.
- 4) Listen for a signal and adjust the [VOL] CONTROL to a comfortable listening level.
  - When the transceiver receives an individual call, the [CALL] and [BUSY] INDICATORS light up in red and green respectively.
- 5) To receive a call or other communications without CTCSS tone signals, turn ON the [MONITOR] SWITCH.
- 6) To receive a call from one of the programmed channels in the transceiver automatically, turn ON the [SCAN] SWITCH.

## ■ TRANSMITTING

If the [BUSY] INDICATOR is green, there may be another station on the channel. Wait until the channel is clear.

- 1) Push and hold the PTT SWITCH. Speak into the microphone.
  - The [TX] INDICATOR is red.
  - **DO NOT** hold the transceiver too closely to your mouth or speak loudly. This may distort the signal.
- 2) Release the PTT SWITCH to receive.

## ■ TURNING OFF POWER

Rotate the [VOL] CONTROL fully counterclockwise until a click sound is heard.

# OTHER INFORMATION 4.

## ■ LOW BATTERY CONDITION

When the battery capacity is reduced or exhausted the [TX] INDICATOR (red) goes out or does not light up in transmitting.

If you have conditions as above recharge the battery pack using the BM-70 AC BATTERY CHARGER (sold separately) or replace the battery pack with a fully charged one.

## ■ BATTERY PACK CAUTIONS

- **NEVER** throw the battery pack into a fire. Internal battery gas may cause an explosion.
- **NEVER** put the battery pack in water. If the battery pack is wet, be sure to wipe it dry.
- **NEVER** short the terminals on the top panel of the battery pack. Internal components may be damaged.
- **NEVER** replace the battery cells. The supplied battery packs can normally be recharged 300 times. After this a new battery pack must be purchased.
- **NEVER** short the terminals on the battery pack. Cover them with the plastic insulator strip (supplied).

## ■ OPTIONS

### ● BATTERY PACKS

BATTERY PACK	HEIGHT mm/in.	DESCRIPTION
CM-71	75/3	Regular output power, Rapid charge
CM-72	75/3	Medium output power, Rapid charge
CM-73	109/4.3	High output power, Rapid charge

### ● BM-70 AC BATTERY CHARGER

Charges CM-71, CM-72 and CM-73 BATTERY PACKS.

### ● EM-49 SPEAKER-MICROPHONE

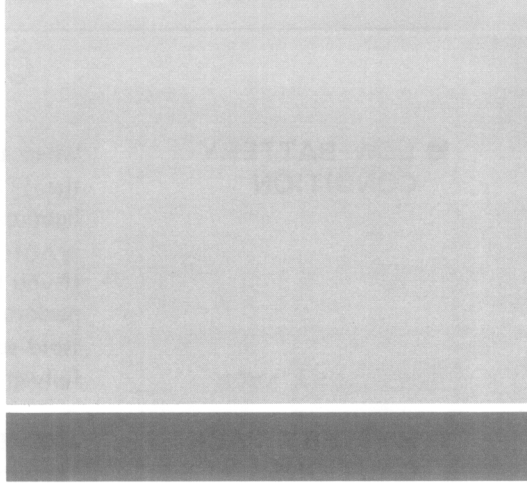
Plugs into transceiver and clips on lapel or pocket. Has PTT switch.

### ● UT-42 DTMF UNIT

Allows you to make DTMF tones that access a repeater or an make auto phone-patch.



**Count on us!**



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**Icom Inc.**  
6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan